Template:Networking rutos manual lan

The information in this page is updated in accordance with firmware version .

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Summary

The **LAN** page is used to create and set up local area network interfaces.

This manual page provides an overview of the LAN windows in {{{name}}} devices.

If you're having trouble finding this page or some of the parameters described here on your device's WebUI, you should **turn on "Advanced WebUI" mode**. You can do that by clicking the "Advanced" button, located at the top of the WebUI.

LAN

The **LAN** section displays LAN interfaces currently existing on this device.

If you hover mouse over the question mark global IPv6 prefix assignment addresses will be displayed.

The **Add New Instance** section is used to create additional network interfaces. To create a new interface, simply enter a custom name for it and click the 'Add' button.

To begin configuring an interface, click the 'Edit' button on the right side of the interface:

Interface configuration

General settings

The **General Settings** section is used to configure the main parameters of LAN.

Field	Value	Description
Enable	off | on; default: **on**	Enable interface
Protocol	Static | None; default: **Static**	
IPv4 address	ip4; default: **192.168.1.1**	Your router's address on the network
IPv4 netmask	netmask; default: **255.255.255.0**	The IPv4 netmask of this interface. A **netmask** is used to define how "large" a network is by specifying which part of the IP address denotes the network and which part denotes a device.

IPV6 settings

The **IPV6 settings** section is used to configure the IPv6 parameters of LAN.

Field	Value	Description
Delegate IPv6 prefixes	off | on; default: **on**	Enable downstream delegation of IPv6 prefixes available on this interface.
IPv6 assignment length	Disabled | 64 | Custom - integer [0..6]; default: **60**	Assign a part of given length of every public IPv6-prefix to this interface.
IPv6 assignment hint	A hexadecimal string of symbols: a-f, A-F and 0-9 is accepted; default: **none**	Assign prefix parts using this hexadecimal subprefix ID for this interface.
IPv6 suffix	Allowed values: "eui64", "random", fixed value like "::1" or "::1:2"; default: **none**	Optional. Allowed values: 'eui64', 'random', fixed value like '::1' or '::1:2'. When IPv6 prefix (like 'a:b:c:d::') is received from a delegating server, use the suffix (like '::1') to form the IPv6 address ('a:b:c:d::1') for the interface.

Advanced settings

The **Advanced settings** section is used to configure the advanced parameters of LAN.

Field	Value	Description
Force link	off | on; default: **on**	Set interface properties regardless of the link carrier (If set, carrier sense events do not invoke hotplug handlers).

Use gateway metric	integer [0..10000]; default: **0**	The configuration by default generates a routing table entry. In this field you can alter the metric of that entry. Lower metric means higher priority.
Override MAC address	Mac address of six groups of two hexadecimal digits are accepted. E.g. 00:23:45:67:89:AB; default: **none**	Override MAC address of the interface. For example, your ISP (Internet Service Provider) gives you a static IP address and it might also bind it to your computers MAC address (i.e., that IP will only work with your computer but not with your router). In this field you can select your computer's MAC address and fool the gateway in to thinking that it is communicating with your computer. You can select the MAC address of a currently connected computer, or use a custom one. When changing MAC address on LAN interface be careful to avoid MAC address collisions.
Override MTU	integer [98..65535]; default: **none**	Maximum Transmission Unit (MTU) – specifies the largest possible size of a data packet.
IP4 table	Value must be a valid unsigned integer; default: **none**	IPv4 routing table for routes of this interface.

Physical settings

The **Physical settings** section is used to configure the physical parameters of LAN.

Field	Value	Description
Bridge interfaces	off | on; default: **on**	Creates a bridge over specified interface(s).
Enable STP	off | on; default: **off**	Enables the Spanning Tree Protocol on this bridge.
Enable IGMP	off | on; default: **off**	Enables IGMP snooping on this bridge.
Interface	network interface(s); default: **lan physical interface**	Physical interface name to assign to this section, list of interfaces if type bridge is set.

Firewall settings

The **Firewall settings** section is used to configure the firewall parameters of LAN.

Field	Value	Description
Create / Assign firewall-zone	firewall zone; default: **lan**	Choose the firewall zone you want to assign to this interface. Select 'Unspecified' to remove the interface from the associated zone or define a new zone and attach the interface to it.

[[Category:{{{name}}} Network section]]